



**Figure S2**

**Figure S2.** *TbPARN-1* knockout by homologous recombination in procyclic *T. brucei*.

(A) The two *PARN-1* alleles (Chr 8) were insertionally inactivated in the strategy shown in the diagram. Knockout of allele 1 was selected using phleomycin. Knockout of allele 2 was selected using neomycin. Black boxes show the 5' and 3' 500 bp that flank the *PARN-1* ORF (open box). The phleomycin and neomycin ORFs are shown in yellow. (B) Northern analysis of total RNA and poly A<sup>+</sup> RNA from wild-type (WT) and *PARN-1* knockout (KO) cells. *PARN-1*-specific probe, recognizing the region between nts 960-1761 of *PARN-1* ORF, was used to detect *PARN-1* mRNA.  $\beta$ -tubulin-specific probe, recognizing the region between nts 1-800 of the  $\beta$ -tubulin ORF was used to detect  $\beta$ -tubulin mRNAs as a loading control. (C) *PARN-1* is expressed in wild type but not double knock out cells. (D) Growth curves of WT and two clonal cell lines (KO#1 and KO#2) or KO#1 grown without drugs (KO#1 No drugs). Cell counts were directly assessed using hemocytometer.